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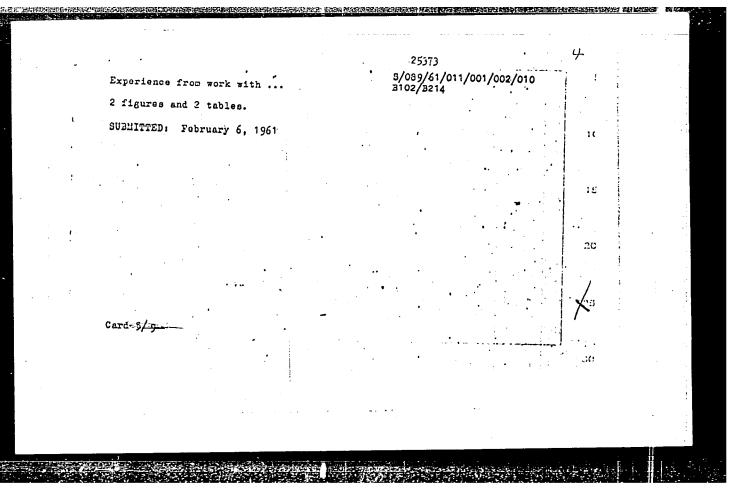
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Experience from work with ...

starting was perfected which requires only such equipment as is used in normal operation. During the period of transformation of the superheating operation, the superheating channel could either be closed, or it could work without cooling ("dry operation"), or with water cooling. The last named method had a number of advantages. The following starting methods were studied: Starting with continuous increase of the reactor power, starting with decrease of the reactor power, and combined methods (first the former, and then the latter but lowering the power only for about 60 - 70%). To increase the safety of the reactor, a special system was built in 1959 which prevents the escape of the gas - steam mixture into the ventilation system when the tubes of the experimental holes break down. This system "for localizing the damage due to accident" (Fig. 2) not only serves this purpose but also helps to purify the gas after the accident has occurred. The system consists of a cylindrical tank (6.2 m3) whose lower part (1.8 m3) is filled with water; in it are placed the cooling coils and special nozzles through which the steam - gas mixture streams into the water in the case of an accident. The gas is introduced in a sensitive gas container. The whole system is placed in a protective container equipped with manometers, thermometers, and dosimeters. There Card 4/9

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в/0096/64/000/006/0005/0007

ACCESSION NR: AP4037630

AUTHOR: Ushakov, G. N. (Candidate of Technical Sciences); Kochetkov, L. A. (Engineer); Konochkin, V. G. (Engineer); Sever'yanov, V. S. (Engineer)

TITIE: Operating experience of the first atomic power plant

SOURCE: Teploenergetika, no. 6, 1964, 5-7

TOPIC TAGS: atomic reactor, atomic power plant, reactor operation, direct flow reactor

ABSTRACT: The authors present data demonstrating the high reliability of plant , equipment after ten years of operation. Seventy per cent of fuel elements operated 1.5 to 3.5 times longer than design expectations, while channels and reactor operated normally even with channel flows between 100-1000 g/hr. Compensation capacity of the uncooled, heat-resistant boron-steel rods was 80% that of the previously used boron carbide rods; increasing the boron content beyond 2.5--3.0% did not increase compensation. Life of the fully inserted rods was 54 days at a reactor power of 15 Mw. Filling the graphite pile with nitrogen enabled it to operate at 700-8000. In the beginning of 1960 all channels began operation under

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ACCESSION NR: AP403	7630	. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
operating conditions	and the entire reactor was converted to query or an entire reactor was converted to query or an experiment with superheated sing a direct-flow reactor by gradual dispositity of cooling it during emergency shu	lacement of water with
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ACCESSION NR: AP4041445

S/0089/64/016/006/0484/0488

AUTHORS: Ushakov, G. N.; Kochetkov, L. A.; Konochkin, V. G.; Sever'yanov, V. S.; Kozlov, V. Ya.; Sudnitsy*n, O. A.

TITLE: Operating experience of the first atomic electric station in the world

SOURCE: Atomnaya energiya, v. 16, no. 6, 1964, 484-488

TOPIC TAGS: reactor control rod, reactor feasibility study, reactor hazard, reactor operation, boiling water reactor

ABSTRACT: Several preliminary tests aimed at ascertaining the feasibility of an atomic power station with the steam heated directly in the reactor are described. These included tests to determine the degree of throttling of thin parallel boiler tubes directly tooling the fuel elements at loads up to 10⁶ kcal/m² hr with up to 30% steam by weight; tests to prevent pulsations of flow in the

Card 1/4

ACCESSION NR: AP4041445

parallel boiler tubes; experiments on nuclear superheating of the steam in an experimental single-circulation loop. The description covers experiments on the boiling and steam superheat modes in the reactor, tests on the operation of the uncooled control rods, and reactor safety tests. The original control rods made of boron. carbide clad with stainless steel and cooled with water. 'Various shortcomings of these rods have necessitated the development of control rods made of tubular steel carrying equally spaced sleeves of boride steel (18 sleeves in a control rod 1500 mm long). Rods of this type had sufficient absorbing ability and service life to operate at 850C and an integral neutron flux 5 x 10^{20} neut/cm². use of these control rods increased the reactivity margin by 0.8%, the operating period by 15 days, and the reactor efficiency by 1%. Other advantages and disadvantages of uncooled boron carbide scram rods are briefly discussed. The safety problems considered involve hermeticity of the fuel element cladding and of the fuel element internal tube which is under pressure. The effects of each

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ACCESSION NR: AP4041445

type of failure are discussed. In the former type the contamination of the first loop by radioactive corrosion products is relatively low even after 10 years of operation. A special system, which prevents the steam-gas mixture from entering the ventilation system in the case of energency of the latter type, is described. It is claimed that all the safety precautions cause the personnel exposure to radiation to be below the established norm. Orig. art. has: 1 figure.

ASSOCIATION: None

SUBMITTED: 11Apr64

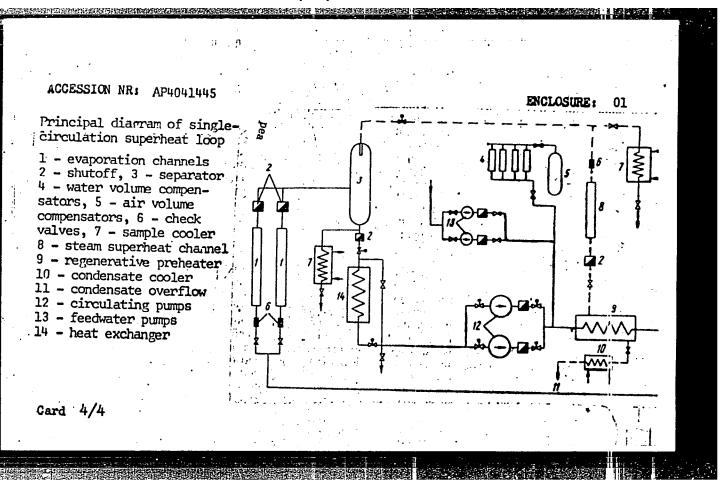
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Card 3/4



USHAKOV, G.N., kand. tekhn. nauk; KOCHETKOV, L.A., inzh.; KONOCHKIN, V.G., inzh.; SEVER'YANOV, V.S., inzh.

Experience in the operation of the first atomic power plant. Teploenergetika 11 no.6:5-7 Je '64. (MIRA 18:7)

L 16282-65 EVT(m)/EPF(n)-2/T/EPA(bb)-2 Pu-4 SSD/AFWL DM S/0089/64/017/005/0359/0366 S/0089/64/017/005/0359/0366

AUTHORS: Ushakov, G. N.; Kochetkov, L. A.; Konochkin, V. G.; Bever'yanov, V. S.; Kozlov, V. Ya.; Sudnitsy*n, O. A.; Belinskaya, N. T.; Slyusarev, P. N.; Ivanov, V. A. Source: Atomnaya energiya, v. 17, no. 5, 1964, 359-366

TITLE: Operating experience with the first atomic electric station as an experimental installation

TOPIC TAGS: research reactor, reactor theory, reactor operation

ABSTRACT: Different experimental loops added to the f.rst atomic energy station for research purposes are described. These include the following: 1) double-passage steam superheating loop; 2) water loop with natural circulation; 3) water loop for water-chemistry research; 4) high pressure water loop; 5) loops for organic-liquid research (with high and low melting temperatures). Each of the loops is briefly described. Other phases of the research are tests of the behavior of the graphite core at high temperatures, operating

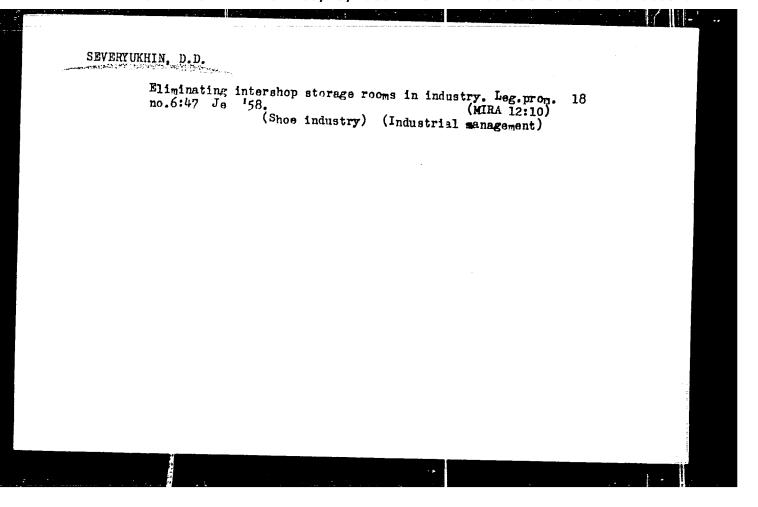
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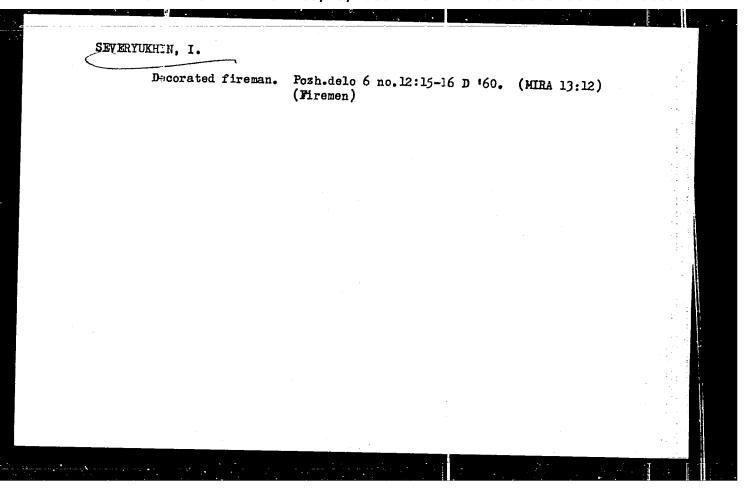
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EWI(m) DIAAP/AFWL/ESD(dp)/HAEM(t) ACCESSION NR: AR4044030 8/0058/63/000/011/B020/B02 SOURCE: Ref. zh. Fizika, Abs. 118199 AUTHOR: Isayev, P.; Severy'n'skiy, M. TITLE: The production of KK-Pairs in TV-collisions CITED SOURCE: Tr. 7 mezhdunar. konferentsii po vopresam fiz. vy sokikh energiy Sofiya, 1961. Sofiya, 1962, 91-94 TOPIC TAGS: pi pi scattering, KK pair, integral equation, partial amplitude, TRANSLATION: Using double dispersion relations there are obtained integral equalions for partial amplitudes of the proces #+#→K+K. Only 5- and P-waves are examined Under conditions of unitarity there are considered only 2-particle intermediate states. The obtained equations contain the dependence on the phases of av-scatte ing and on the partial amplitudes of #K-scattering. The requirement of the existence and uniqueness of the solutions of the equations lead; to a number of restriction Card 1/2

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RYZHIKOV, A.A., doktor tekhn. nauk; SEVERYUKHIN, N.V., inzh.; TIMOFEYEV, G.I., kand. tekhn. nauk; ROSHIHIN, M.I., inzh.

Low-pressure casting of intricately shaped silicon brass castings. Lit. proizv. no.12:35 D '65. (MIRA 18:12)

ANDO, Jeno; MATEFFY, Sandor; VEN, Mihaly; <u>SEVESTYEN</u>, <u>Endre</u>; <u>FELKAI</u>, <u>Aurel</u>; GERVAI, Zoltan; MAYER, Laszlo; GREGOR, Alder; RASCHOVSKY, Lajos

Remarks on the article "The most important problems of technical development of electric installations in infustrial plants and tasks for the manufacturing industry related to this. Villamossag 9 no.1/3:42-46 Ja-Mr *61.

1. A Villamos Eloszerelo Vallalat fomernoke (for Ando). 2. A Koho-es Gepipari Miniszterium Tervezo Irodai villamos tervezesi soztalysnak vezetoja (for Mateffy). 3. A Villamos Allomasszerlo Vallalat formernoke (for Ven and Felkai). 4. Vegimuveket Tarvezo Vallalat (for Sevestyen). 5. Konnyuipari Tervezo Iroda (for Gervai). 6. E.M. Tipustervezo Intezet (for Gregor). 7. E.M. Ipari es Mezogazdasagi Tervezo Vallalat (for Raschovsky).

ANDO, Jeno; MATEFFY, Sandor; VEN, Mihaly; SEVESTEN, Endre; FELKAI, Aurel; GERVAI, Zoltan; MAYER, Latizlo; GREGOR, Aladar; RASCHOVSZKY, Lajos; SZEIES, Lajos; BEKE, Gyula

Remarks on the article "The most important problems of technical development of electric installations in industrial plants and tasks for the manufacturing industry related to this. Villamossag 9 no.1/3:42-46 Ja-Mr '61.

1. A Villamos Eloszerelo Vallalat fomernoke (for Ando).

2. A Koho-es Gepipari Miniszterium Tervezo Irodai villamos tervezesi osztalyanak vezetoje (for Mateffy).

3. A Villamos Allomasszerelo Vallalat formernoke (for Van and Felkai).

4. Vegyimuveket Tervezo Vallalat (for Sebestyen).

5. Konnyuipari Tervezo Iroda (for Gervai).

6. E.M. Tipistervezo Intezet (for Gregor).

7. E.M. Ipari es Mezogazdasagi Tervezo Vallalat (for Raschovszky).

8. Orszagos Villamosenergia Felugyelet (for Szeles).

9. Orszagos Villamosenergia Felugyelet (for Beke).

Sivets, M.Ye.; SHREYERV, B.Ye.; ROICHROVA, I.F.

Use of raviation measurements from satellites in a model of large-scale atmospheric movements. Trudy USO no.165:173-121

164. (MIRA 17:11)

SEVGIC, E.

Results achieved in recent piping of water from marine sources by a device to demineralize salt water. p. 506.
TEMMIYA, Beograd, Vol. 10, no. 4, 1955.

SO: Monthly List of East Auropean Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

SEVIC, Miroslav, asistent (Beograd, 14. decembra 57)

A numerical criterion in the dimensioning of the axle with circular cross section subjected to torsion. Tehnika Jug 17 no.7:Suppl.: Masinstvo 11 no.7:1309-1311 J1 162.

1. Prirodno-matematicki fakultet Univerzitata u Beogradu.

DEVIC, 1.

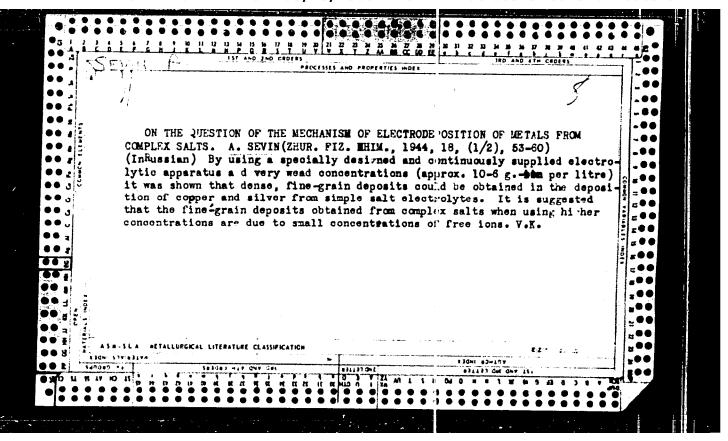
Preparation for health education of serbian village girls. p. 2. (SECGRAD, Vol 7, no 5, 1952)

SC: Northly Li t of Best European Accessions. (EEAL, IC, Vol. 4, No. 6, June 1955, Uncl.

SEVICK, V.

"Formation of Large Strains of Bacillus subtilis in Flowing Media." p. 111 (CHEKHOSLOVATSKAE BIOLOGIIA, Vol. 1, No. 1, May 1952) Praha, Gzechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.



Savin, I.

Zurope, Eastern - Economic Conditions

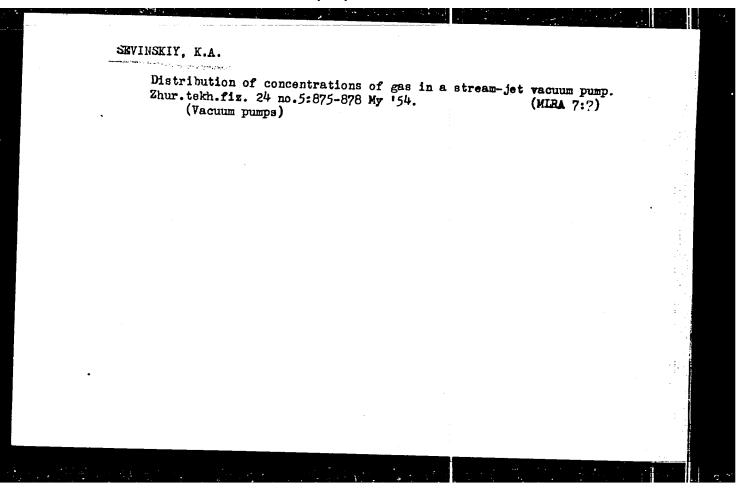
Road to the future. Nauka i shizn' 20, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

ZAHRODINA, A.S.; SEVINA, S.Ya.

Microdetermination of carbon and hydrogen in silane organic compounds. Vest. Mosk. un. Ser. mat., mekh., astron., fiz. khim., 12 no.5:181-186 157. (MIRA 11:9)

1. Kafedra organicheskoy khimii Moskovskogo gosudarstvennogo universiteta. (Carbon) (Hydrogen) (Silane)



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	AUTHORS: Bliznyuk, N. K.; Kvasha, Z. N.; Solntseva, L. M.; Litman, B. Ya.; 44. Beym. A. I.; Sevitov, I. B.	1	
	ORG: none	3 👌	
	TITLE: A method for obtaining dialkylphosphites. Class 12, No. 174624		
	announced by Organization of the State Committee for Chemical Industry at Gospla		
	SSSR (Organizatsiya gosudarstvennogo komiteta po khimicheskoy promyshlemnosti pri		
•	SOURCE: Byulleten' isobreteniy i tovarnykh snakov, no. 18, 1965, 25	i.	
	TOPIC TAGS: phosphorus compound, alcohol, dialkylphosphile		
	ABSTRACT: This Author Certificate presents a method for obtaining dialkyl-	, .	
	phosphites by reacting phosphorus trichloride with alcohols or alcoholic solution	<u>,</u>	
1	with subsequent drying of products by a current of dry air. To increase the yield of final product and to simplify the process, trialkylphorphites are added to the	•	•
1.	reaction mixture in quantities equivalent to the overall content of acidic productions CODE: OC/ SUBM DATE: 170ct64)TEL	
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SEVIYEV, S.A.

AUTHOR:

Seviyev, S.A., Engineer

67-58-2-15/26

TITLE:

The Automatic Control of the Process of Oxygen Production

(Avtomaticheskoye regulirovaniye proteessa polucheniya kisloroda)

PERIODICAL:

Kislorod, 1958,

Nr 2, pp. 64-71 (USSR)

ABSTRACT:

The author bases his paper on technical data obtained from foreign publications. As a model of the automatized oxygen apparatus he mentions one produced by the firm of "Stesi-Dresser" (USA) and sets up a workable program for the automatization of the following functions: 1.) The quantity of air with which the apparatus is supplied. 2.) The ratio between the air supply and the recuperators of nitrogen- and hydrogen regenerators. 3.) Temperature at the cold end of oxygen regenerator recuperators. 4.) The same of nitrogen regenerator recuperators. 5.) The regulation of air quantity before the "turbodetander" (engine driven by compressed gas). 6.) Regulation of air temperature before the "turbodetander". 7.) Working regime of the high pressure column. 8.) Regulation of the pressure of liquid nitrogen at the input of the low pressure column. 9.) Regulation of the degree of purity of the oxygen produced. The author gives the basic scheme of such an apparatus and

Card 1/2

The Automatic Control of the Process of Oxygen Production

67-58 -2-15/26

describes its automatization in accordance with the above points. In the section. Additional Points of Control the author deals with the automatization of the following functions: a) control of air temperature before the input to the regenerator recuperators. b) Extraction of gaseous oxygen from the column for low pressures. c) Control of the supply of liquid oxygen to the distillation column. d) Determination of the acetylene content on liquid oxygen; regulation of temperature in the high pressure column when heated up to the permitted maximum temperature (90°C). Finally, the author mentions the possibility of using the nitrogen blower for the drier as an automatic protection of parts of the apparatus against the action of gases and moisture. There is 1 figure.

AVAILABLE:

Library of Congress

1. Oxygen production—Processes 2. Oxygen production—Control systems

Card 2/2

SEVKO, A., kand.tekhn.nauk, inzh.-polkovnik; SAVEL'IEV, V., kand.tekhn.nauk

Determining depths for driving of military bridge piles. Voen.inzh.zhur.94 no.7:29-36 J1 '50. (MIRA 10:12)

(Piling (Givil engineering)) (Military bridges)

SZVKOVIC, N.

"ASS., Vet. Fac. Beograd, Cocblebur (Xanthium Saccharatum) Poisoning in Pigs."

Vet. 1 : 34-38, 1954

SEVKOVIC, N.

YUGOSLAVIA/Farm Animals. Swine.

્રે-2

Abs Jour: Ref Zhur - Biol., No. 22, 1958, 101208

Author : Sevkovic, N., Stojanovic, N., Stojanovic, M.S.

Inst: -

Title : The Effect of Adding Vitamins to Various Kinds

of Fodder Upon Growth Acceleration of Weaned

Piglets.

Orig Pub: Veterin. glasnik, 1957, 11, No. 11, 1066-1070

Abstract: As vitamins in the form of the "Dokhifral A +

D₃ + B" preparation were given to weaned piglets, which were fed vegetative fodder, their appetites improved and they absorbed their feeds

better. Thus, in turn, growth acceleration resulted. As vitamins were added to feed rations which contained products of animal origin, however, the growth of the piglets did not become

accelerated.

Card 1/1

51

YUGOSLAVIA

S1. MURGANSKI, I. PUHAC and N. SEVKOVIC [Affiliation not given.]

"Use of the Annular Box A-1900 for Parturient Sows in Large Swine Farms."

Belgrade, Veterinarski Glasnik, Vol 17, No 5, 1963; pp 419-425.

Abstract: Summary of anatomical, physiological and technical considerations leading to design and construction of a tubular frame metallic round enclosure for sows, so built that the chance of suffocation of newborn piglets is minimized. The enclosure is placed into the usual square wooden pen. In use, only 2 piglets out of 88 in 8 litters were suffocated. Comprehensive technical details. Photograph, 2 tables.

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YIIGOSLAVIA

PUHAC, I.; MURGASKI, S.; SURDUCKI, I.; and SEVKOVIC, N., Institute for Preventive Veterinary Medicine (Institut za preventivnu veterinarsku medicinu), Belgrade

"Effect of Environment and Density of Population in Pig Pens with Slotted Floors on Results of Fattening Swine and on the Quality of Meat"

Belgrade, Veterinarski Glasnik, Vol 20, No 10, 1966, p. 733-742

Abstract [English summary modified]: Study of suitability of slotted or latticed floors in hog pens to replace the usual cold floors, revealed that slotted floors consistently gave superior results in terms of final body weight as well as feed efficiency, regardless of the number of head kept in the standard size box. 7 tables, 2 United States references. Manuscript received 28 Apr 66.

FUKARAK, D.: BAF'R, J.; MESTROVIC, S.; KLEPAC, D.; LNENICEK, Z.; ZMIJANAC, D.; SEVNIK, F.; ZAGAR, B.; MIKLAVZIC, J.; KNEZ, A.; PIPAN, R.; FUNKL, L.; SVETLICIC, A.; ZUMER, L.; KEVO, R.

Reveiw of periodicals; silviculture. Bul sc Youg 9 no.4/5:144-145 Ag-0 '64.

SEVORTYAN, A.

[Plant more corn in our country] "Kukuruzu - na polia strany";
nauchno-populiarnyi fil'm. [Moskva, Mos. kinostudiia nauchnopopuliarnykh fil'mov, 1955] 22 p. (MIRA 11:3)

(Corn (Maize))

SEVOST'YANIKHINA, R.I.

Intravarietal crossing of forage beans. Agrobiologiia no.3:463-464 My-Je 165. (MIRA 18:11)

1. Leningradskiy sel'skokhozynystvonnyy institut, g. Pushkin.

Passortirovka volo'on na grebnochesal'nykh mashinakh.
Tokstil. From—st', 1948, No. 6, s. 18-22.

S0: Ictopis' Zhurnal'nykh Statey, No. 30, Moskva, 1948

Sevent'swive, A. G. - "Problems of the theory of the composition of mixtures in cotton", Handt.-icaled. trudy (Hook. tokatil. in-t), Vol. XI, 1943, p. 55-75.

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 8, 1949).

SEVOST! IANOV, A. G.

Author: Sevost iancy. A. G.

Title: The construction, assembly, repair and adjustment of the band and

uniform machines. (Ustroistvo, montazh, remont i nala ka lentochnykh i rovichykh mashin). 235 p.

City: Moscow Publisheri

PARTICIALLY. State Printing House of Technical Literature

Date: 1950

Available: Library of Congress

Source: Monthly List of Mussian Accessions, v. 3, no. 12, page 842

TRUYEVTSEV, N.I.; SEVOST'YANOV, A.G., retsenzent; SOKOLOVA, V.Ye., redaktor; EL'KINA, B.M., tekhnicheskiy redaktor

[Spinning; a comparative course] Priadenie; sravnitel'nyi kurs. Moskva, Gos.nauchno-tekhn. izd-vo legkoi promyshl., 1952. 277 p. (Spinning)

SEVOST'YANOV, Aleksey Grigor'yevich; KOPELEVICH, Ye.I., redaktor; EL'KINA, E.M., tekhnicheskiy redaktor.

[Blending and the composition of blendings in cotton spinning; theory and practice] Sostavlenie smesok i smeshivanie v khlopkopriadil'nom proizvodstve; teoriia i praktika. Moskva, Gos. nauchno-tekhn. isd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1954. 191 p. (MIRA 8:1)

(Cotton spinning)

SEVOST'YANOV, A.G., kandidat tekhnicheskikh nauk; KUCHEROV, B.K., kandidat tekhnicheskikh nauk.

Determining the forces acting on fibers during drawing. Tekst.prom. 14 no.9:16-19 5 '54. (MLRA 7:11) (Spinning)

VINOGRADOV, Yuriy Sergeyevich; BOYEV, G.P., professor, retsenzent; SOLOV'YEV,
A.N., professor, retsenzent; SEVOST'YANOV, A.G., kandidat tekhnicheskikh
nauk, retsenzent; AHKHANGEL'SKIY, S.S., redektor; MEDVEDEV, L.Ya.,
tekhnicheskiy redaktor

[Mathematical statistics and their application to studies in textile production] Matematicheskaia statistika i ee primenenie k issledovaniam v tekstilinom proizvodstve. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 260 p. (MIRA 10:1) (Mathematical statistics)

SOKOLOV, Gennadiy Vasil'yevich; SEVOST'YANOV, A.G., nauchnyy redaktor; SUKOLOVA, V.Ye., redaktor; MEDVEDEVA, L.F., tekhnicheskiy redaktor

[The theory of twisting of fibers] Voprosy teorii krucheniis voloknistykh materialov. Moskva, Gos, nauchno-tekhn.izd-vo M-va legkoi poronyshl. SSSR, 1957. 233 p.

(MLMA 10:10)

(Textile fibers) (Spinning)

PHASE I BOOK EXPLOITATION

sov/2826

21(8); 25(1)

Sevost'yanov, Aleksey Grigor'yevich

Primeneniye radioaktivnykh izlucheniy dlya kontrolya, regulirovaniya i issledovaniy v pryadil'nom proizvodstve (Use of Radioactive Rays for Control, Regulation, and Research in the Spinning Industry) Moscow, Gizlegprom, 1958. 57 p. 2,500 copies printed.

Ed. (Title page): M.B. Neyman, Professor; Ed. (Inside book): D.I. Tumarkin; Tech. Ed.: M.T. Knaknin.

PURPOSE: This book is intended for industrial engineers and technologists in the spinning industry.

COVERAGE: The book generalizes and systematically sets forth data on methods which employ radiation from radioactive sources to control, regulate and investigate spinning processes, and offers some possibilities for their wider use. The author thanks Professor M. B. Neyman and Candidae of Technical Sciences K.D. Pismannik. There are 40 references: 28 Soviet and 12 English.

Card 1/3

(Use of Radioactive Rays (Cont.) SOV/282	6	
TABLE OF CONTENTS:		
TADES OF CONTENTS:		
From the Author	2	
Ch. I. Radioactive Method of Measuring the Thickness of		-
Spun Goods	3 3	
1. Essence and theory of the method	3	
2. Device for determining the thickness and irregularity of		
strips (ONL)	16	
3. Feeding regulators of scutching and carding machines	19	
4. Regulators for drawing frames and drawing devices	23	
Ch. II. Radiographic Method of Studying the Structure Spun		
Coods. Car tire Karraktabute warnes of Semiling and series are a femi	26	
	26	
 Essence and theory of the method Determining the straightness and orientation of fiber 	33	
3. Determining the number of contact points between fibers	,,	
and the number of contacting fibers	3 5	
4. Determining the location of fibers in yarn	40	
Card 2/3		

(Use of Radioactive Rays (Cont.)	sov/2826		
Ch. III. Using Radioactive Isotopes as Indicators 1. Determining regularities in the motion of fibers i	· · ·	41	
machine	_	41 52	. ,
 Studying the motion of fibers on a carding machine Determining the effectiveness of mixing fibers 	:	52 55	
Bibliography		56	
AVAILABLE: Library of Congress (TS1449.S48)			
Card 3/3		M/gmp 21-60	

SEVOST'YANOV, A.G., kand.tekhn.nauk

Introduce automatic assembly lines; automatic regulators for drawing.
Tekst.prom. 18 no.5:20-24 My '58. (MIRA 11:5)

(Spinning machinery) (Automatic control)

SEVOST YANOV, A.G.

Equating the curve of thinning in stationary conditions of the drawing process. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.1: 79-89 '59. (MIRA 12:6)

1. Moskovskiy tekstil'nyy institut. (Yarn) (Spinning)

SEVOST'YANOV, A.G.

Equations of the thinness curve in the fixed speed drafting process. Izv.vys.ucheb.zav.; tekh.tekst.prom.no.2:52-65 '59. (MIRA 12:6)

1. Moskovskiy tekstil'nyy institut. (Spinning)

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1. Moskovskiy tekstil'nyy institut. (Spinning)

Equations of the thinning curve obtained in drafting yarn of

irregular structure. Izv.vys.ucheb.zav.; tekh.tekst.prom. no.6: 54-62 '59. (MIRA 13:4)

1. Moskovskiy tekstil'nyy institut.
(Spinning)

SEVOST'YANOV, A.G.

SEVOSTYANOV, A. G., Dr. Tech Sci — (diss) "Investigation of imreguliarities occurring during textile fiber merging and upon drawing off the products for spinning," Moscow, 1960, 24 pp, 150 cop. (Moscow Textile Institute) (KL, 45-60, 124)

SEVOST'YANOV, A.O., kand.tekhn.nauk

Theoretical principles of the operation of modern automatic draft regulators. Tekst.prom. 20 no.2:25-28 F '60.

(Spinning machinery)

(Spinning machinery)

SEVOST'YAMOV, Aleksey Grigor'yevich; GINZBURG, L.N., retsenzent; LEVINSKIY, V.P., retsenzent; AKSENOVA, I.I., red.; KNAKNIN, M.T., tekhn. red.

[Methods for analyzing the irregularities of spinning products; characteristics of random functions and their application] Metody issledovania nerovnoty produktov priadeniia; kharakteristiki sluchainykh funktsii i ikh primenenie. Moskva, Rostekhizdat, 1962. 385 p. (MIRA 15:7)

(Spinning)

GUSEV, Vladimir Yegorovich; BALYASNIKOV, P.S., retsenzent; KONONENKO, T.V., retsenzent; SEVOST'YANOV, A.G., retsenzent; VERBITSKAYA, Ye.M., red.; TRISHINA, L.A., tekhn. red.

[Efficient methods of processing wool and synthetic fibers]
Ratsional'nye metody pererabotki shersti i khimicheskikh volokon. Moskva, Rostekhizdat, 1962. 357 p. (MIRA 16:2)
(Wool and worsted manufacture)
(Textila fibers, Synthetic)

SEVOST YANOV, A.G., prof., doktor tekhn.nauk Pactors determining the strength of attraction of the magnetic rollers of drafters. Tekst.prom. 22 no.12:8-13 D '62.

(MIRA 16:1)

1. Moskovskiy tekstil'nyy institut. (Spinning machinery—Testing)

(Magnetic fields)

SEVEST'YANOV, Aleksey Grigor'vevich; GRCMCVA, T.G., red.; PYATNITSKIY,

[Magnetic rollers and forces acting in exhaust devices]
Magnitnye valiki i sily, deistvuiushchie v vytiazhnykh
priborakh. Moskva, Gizlegprom, 1963. 98 p. (MIRA 16:9)
(Exhaust systems) (Magnets)

Earsel | Wall. | espirantes | SUMOnclaskOV, N.O., doktor tokine neak, pour, takevedseel rebely

Investigating liber migration in blended yarns. Texat.

prom. 24 no.lisid-19 N '64. (NEW 17:12)

1. Moskovokiy toksbillnyy institut.

SEVOST'YANOV, Aleksey Grigor'yevich; YEFIMOV, Aleksey Vasil'yevich; GONCHAROV, A.V., retsenzent; DUKHOVNYY, F.N., red.

[Design, assembly, repair and adjustment of drawing and roving machines] Ustroistvo, montazh, remont i naladka lentochnykh i rovnichnykh mashin. Moskva, Izd-vo "Legkaia industriia," 1964. 317 p. (MIRA 17:5)

VINOGRADOV, Yuriy Sergeyevich; SEVOST'YANOV, A.G., prof., retsenzent; NESHYTAYEVA, N.M., red;

[Mathematical statistics and its application in the textile industry to research] Mathematicheskaia statistika i ee primenenie k issledovaniiam v takstil'noi promyshlennosti.
2. izd., perer. i dop. Moskva, Legkaia industriia. 1964.
319 p. (MIRA 17:10)

STEPANOVA, A.S., starshiy nauchryy sotrudnik; SEVOSTYANOV, A.G., doktor tekhn. nauk, rukovoditel¹ raboty

Studying the coefficient of tangential resistance between the fiber and materials used for packing. Tekst.prom. 25 no.1:74(MIRA 18:4)
76 Ja 165.

1. TSentral'nyy nauchno-issledovatel'skiy institut vspomogatel'nykh izdeliy i zapasnykh detaley k tekstil'nemu oborudovaniyu
(for Stepanova).

Process of fiber flow arrangement and straightening on roller carding machines. Tekst. prom. 25 no.8:14-20 Ag '65.

1. Moskcyskiy tekstil nyy institut.

ACC NR:	AP6031058 (N) SOURCE CODE: UR/0394/66/004/009/0058/0	0059
AUTHOR:	Nikol'skiy, S. N.; Sevost'yanov, A. Z.	3.
ORG: S	tavropol Agricultural Institute (Stavropol'skiy sel'skokhozyaystvennyy	
TITLE:	Use of certain chemical compounds in the control of ticks in pastures	
SOURCE:	Khimiya v sel'skom khozyaystve, v. 4, no. 9, 1966, 58-59	
pest co	CAGS: chemical compound, insecticide, pesticide, animal parasite, ontrol/ Fenkapton pesticide, Saifos pesticide, Eradex pesticide, Keltan de, Sevin pesticide T: The chemicals shown in the table were tested for their acaricidal activity. As shown by the table, the compounds tested were excellent contact poisons for larvae at nearly all concentrations tested. All experiments were performed uncer laboratory conditions.	
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Card _1/:	3UDC: 632.65\\:636.22/.28	

ACC NR: AP60	31058	on plumbeum	~~····································						-
	·• ·. ·	cides on E H. plum	Kill Kill larvae nymphs % %	3.3	00	13.3	100	100	
		of pesticides nymphs of $H.$	Kill larvae %	100 100 52	87.5 50 20	100 100 36	100 100 100 100	100	: :
	;	fon	Concentration	0.5	0.5 0.05 0.005	0.5 0.05 0.005	0.05 0.005 0.05 0.05	0.025	
	:	Table 1. Acaricidal act larvae of D. marginatus when given in food.	Compound	Fenkapton[0,0-diethyl-S(2,5-dichlorophenylthio methyl)dithiophos-	Saffos [0,0-dimethy] S(4,6-diamine-1,3,5- triazine-2-yl)methyl-	arthrophosphate] Eradex(quinoline-2,2,3- trithlocarbonate)	Keltan[1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethanol] Preparation 952	Sevin(l-napthyl-N-methylcarbamate) Gamma isomer of hexa-chlorocyclohexane Control (water)	

NIKOL'SKIY, S.N., prof.; SEVOST'YANOV, A.Z., assistent; DUBOVYY, S.Z., band. veterin.nauk; PASECHNYY, N.V., veterinarnyy vrach; ZABLUDSKIY, B.M., veterinarnyy vrach

Use of hexachloran against Psoroptes infestation of sheep.

Veterinariia 41 no.8:87-90 Ag 164. (MIRA 18.4)

1. Stavropol'skiy sel'skokhozyaystvennyy institut (for Nikol'skiy, Sevost'yanov). 2. Ministerstvo proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Pasechnyy). 3. Respublikanskaya veterinarnaya laboratoriya Checheno-Ingushskoy ASSR (for Zabludskiy).

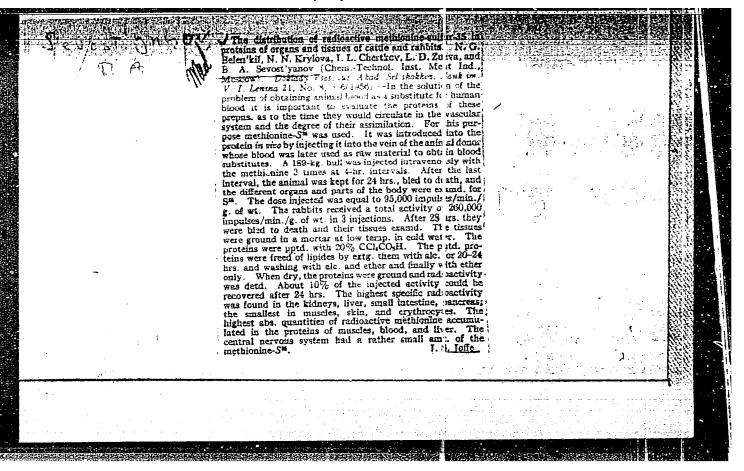
VOINOV, S., kand.veterinarnykh nauk; KARPOVICH, M., veterinarnyy vrach SEVOST'YANOV, B.

Rendering the blood of cattle infected by foot-and-mouth disease harmless. Mias. ind. SSSR 31 no.4:52-53 '60. (MIRA 14:7)

1. Gosudarstvennyy nauchno-kontrol nyy irstitut vetpreparatov (for Voinov, Karpovich). 2. Vsesoyuznyy nauchno-issledovatel skiy institut myasnoy promyshlemosti (for Sevost yanov).

(Foot and mouth disease)

Pituit	ary body extractor	. Miss.ind.S.S	.S.R. 33 no.61	44-45 '62. IRA 16:1)	
1. Vse	soyuznyy nauchno-i	ssledovatel'ski	y institut mya	Bnoy	
promys	hlennosti. (Meat indu	stry-Equipment	and supplies)		
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					;



USSR/Human and Animal Physiology. Metabolism. Nutrition.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55322.

Author : Belen'kiy, N.G., Krylova, N.N., Chertkov, I.L., Bazarova, K.I.,

Zuyeva, L.D., Sevost'yanov, B.A., Kel'man, L.F.

All-Union Academy of Agricultural Sciences. Inst :

The Influence of Thermal Treatment on the Assimilation of Meat Protein. Title

Orig Pub: Dokl. VASKhNIL, 1957, No 4, 23-29.

Abstract: During a period of 6 days, 26 rats of 180-200 gr body weight each,

received daily 10 gr of beef meat with methionine-S35 proteins. Seven control rats were given raw ground meat. Nine rats were fed ground meat which has been heated in an ultrathermostate at 80° [C] for one hour, and 10 rats received ground meat heated in an autoclave at 120° 267. Two days after the last (6th) feeding, all rats were killed. The proteins were extracted from their plasmas and livers, and their radioactivity was determined. And the assimilation of proteins in their natural state as compared to those denaturized by

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CONTROL OF THE CONTRO

USSR/Human and Animal Physiology. Metabolism. Nutrition.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55322.

by heat did not show any differences. Thereafter, this investigation was continued on dogs (numbering 8), whereby the nitrogen balance wasstudied as well. Here, it was established that natural proteins are assimilated somewhat better than denaturized proteins. Also, it was established that the degree of denaturalization does not exert any specific influence upon protein assimilation.

Card : 2/2

SEVOST'YANOV, B.A.

Method of extracting pituitary bodies of swine. Mias. ind. SSSR. 30 no.4:35 '59. (MIRA 12:12)

l. Vsesoyuznyy nauchno-issledovatel † skiy institut myasnoy promyshlennosti.

(Swine houses and equipment) (Pituitary body)

BFLEN'KIY, N.G., akademik; KRYLOVA, N.N., kand. biologicheskikh nauk; BAZAROVA, K.I., mladshiy nauchnyy sotrudnik; SEVOST'YANOV, B.A., mladshiy nauchnyy sotrudnik; KUZNEKO, Ye.V., inzh.

Method for the preparation of "MP" hydrolyzates from blocd proteins and their properties. Trudy VNIMMP no.13:120-144 '62. (MIRA 17:5)

1. Eksp. thekh Moskovskogo myasnogo komibinata (for Kuzenko).

SEVOST'YANOV, B.A., mladshiy nauchnyy sotrudnik

Biological evaluation of the characteristics of heteroprotein blood substitutes with highly denatured proteins. Trudy VNIIMP no.13:145-149 '62. (MIRA 17:5)

SEVOST YAMOV, D. D.

Konstruktsila i remont vychislitel'nykh mashin. Design and repair of computing machines. Gosstatizdat, 1952. 188 p.

SO: Monthly List of Russian Accessions Vol. 6 No. 7 October 1953

5 (4)

AUTHORS: Gorbanev, A. I., Kessler, Yu. M.,

SOV/20-125-6-30/61

Povarov, Yu. M., Sevost'yanov, E. S.

TITLE:

Some Regularities in the Properties of the Solutions of Strong Electrolytes (Nekotoryye zakonomernosti svoystv rastvorov

sil'nykh elektrolitov)

sil'nykh elektrolito

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6,

pp 1281-1284 (USSR)

ABSTRACT:

The authors state that it is possible to explain the

deviation of the properties of electrolytes from the Debye-Hückel-law only by taking the specific ion interaction into account. On the basis of assumptions made in an earlier paper (Ref 4) the contribution \mathbf{f}_c of ion interaction is given

as amounting to $\ln f_c = \frac{4}{3}\pi a^3 Bc - B\beta_1 c$ (1). $\left[a = r_+ + r_-\right]^p$ the sum of the crystallographic radii of the cation and anion, $B = 6.024 \cdot 10^{20}$, $\beta_1 = \text{coefficient taking the solvation energy}$ of the ion pair into account (Formula 2), c = concentration. The deviation $\lg f_{exp} = \lg f_D - \lg f_c$ ($f_{exp} = \text{experimentally}$)

Card 1/4

Some Regularities in the Properties of the Solutions of Strong Electrolytes

SOV/20-125-6-30/61

determined behavior, F_D = theoretical behavior according to Debye-Hückel) was investigated at 25° and c = 0.01 in aqueous electrolyte solutions. The following increase of the deviation was found: LiCl< KClO_A </br>

CsCl, CsBr< KCl< KBr< LiNO $_3$, NaCl< KJ< LiBr< NaJ< NaBr< LiClO $_4$ < KF< CsF. It follows herefrom that there is no agreement between the deviation and the solvation ability of the ions. As the energy of electrostatic interaction and quantum—mechanical energy compensate each other, with an increase of the ion radius, the lack of agreement must be due to individual differences between the ion pairs, which manifest themselves in their solvation energy. Therefore, the values for B $_1$ c were calculated and the curve of the function B $_1$ c = f(a) for O $_1$ 0 and 25 $_1$ 0 was plotted (Figs 1, 2). An existing connection now becomes noticeable. The considerable straggling of measured values may be explained by the omission of all other interaction factors. Investigation of the dependence between

Card 2/4

Some Regularities in the Properties of the Solutions of Strong Electrolytes

SOV/20-125-6-30/61

 $B\beta_1c$ and b (dipole effect) as well as g (charge interaction) resulted in no connection in the case of water. On the basis of data (Ref 7) for formamide the values of $B\beta_1c$ in a formamide solution were calculated and represented as f(a) and f(b) (Fig 3). The authors, however, emphasize that this connection, which now becomes apparent, may be due to a misapprehension. It happens that the salts for which data in formamide are available, show a continuous connection between a, b and g (Fig 4). Thus, the real argument of the function $B\beta_1c$ can therefore only be one of the variables

a, b, g. In order to clear this up, it is necessary to determine the values for salts which do not fit in to the curve of figure 4. There is no connection between a, b and g and the deviation from the law of dilution heat. The dilution heat is influenced in the same manner by the various effects of ion interaction. In this case the entropy terms of the equation must not be omitted. There are 4 figures and 7 references, 4 of which are Soviet.

Card 3/4

Some Regularities in the Properties of the Solutions of Strong Electrolytes

SOV/20-125-6-30/61

ASSOCIATION:

Institut elektrokhimii Akademii nauk SSSR (Institute for

Electrochemistry of the Academy of Sciences, USSR)

PRESENTED:

January 14, 1959, by A. N. Frumkin, Academician

SUBMITTED:

December 26, 1958

Card 4/4

SEVOCITYANOV, E. S. and LEYKIS, K. I. (Institute of electrochemistry of Academy of Sciences of USSR)

"Investigation of adsorption of hexyl alcohol on a group of metals"

Report presented at the Intervuz Conference on Electrodeposition of Nonferrous Metals, Ural Polytechnical Institute im S. M. Kirov, Sverdlovsk, held from 27-30 May 1963.

(Reported in Tsvetnyye Metally, No. 10, 1963, pp. 82-84)
JPRS 24,651 19 May 1964

USSR/Cuitivated Plants - Commercial. Oil-Bearing. Sugar-Beraing.

: Ref Zhur Biol., No 18, 1958, 82416 Abs Jour

: Sevost'yanov, F.G., Kurbanov, S., Purliyev, A. Author

: Turkmen Agricultural Institute Inst

On the Organization and Application of Irrigation under Title

the Conditions of Square-Pocket Planting of Cotton.

: Tr. Turkm. s.-kh. in-ta, 1957, 9, 35-42 Orig Pub

: Observations on the organization of irrigation for cot-Abstract

ton in 1956 on one of the plots at the "Bol'shvik" kolkhoz in Tedzhenskiy Rayon (Turkmen SSR) are described. The soil of the plot represents typical sierozen of median water permeability. Planting was carried out by the row method with the spaces between rows of 45 centimeters, and after the appearance of the sprouts, the plants

were distributed on 45 x 45 centimeters squares by means

Card 1/2

- 71 -

L 16059-66 EWP(m)/EWT(1)/FCS(k)/EWA(d)/EWA(1)
ACC NR: AP6004071 SOURCE CODE: UR/0040/65/029/005/0863/0869

AUTHOR: Sevost'yanov, G. D. (Saratov)

ORG: none

TITLE: Planar near-sonic flow of a gas at a distance from a shape located in a channel

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 5, 1965, 863-869

TOPIC TAGS: aerodynamics, subsonic flow, gas dynamics, wind tunnel, airfoil

ABSTRACT: Peculiarities of planar near-sonic gas flow around a symmetrical shape

Fig. 1. 7:0

Card 1/2

L 16059-66

ACC NR: AP6004071

The foil is situated in a channel between parallel walls separated by a distance 2L and is beneath the zero angle of attack. Sonic line AB is created between the airfoil and the channel walls by the flow of gas at near-sonic velocity around the foil. The stream function $\psi(\theta,\gamma)$ satisfies the Trikomi equation $\dot{\eta}\psi_{\theta\theta}+\dot{\psi}_{\eta\eta}=0$

where θ is the slope angle of the velocity vector with the axis of the channel, and η is a known function of the velocity modulus. Initial and boundary conditions are stated, and a solution is found for $\psi(\theta, \gamma)$. The solution is obtained through the use of singular equations in closed form according to S. Gellerstedt (Quelques problemes mixtes pour l'equation $y^{\text{MZ}}_{\text{CX}} + Z_{\text{CY}} = 0$. Arkiv mat., astron. och fys. A, 1937, vol. 26, No. 3). It is shown that, as the channel becomes larger, the system behaves as a planar unbounded sonic streamflow (see F. I. Frankl. Ob odnom klasse resheniy gazodinamicheskikh uravneniy S. A. Chaplygina. Uch. zap. MGU, Mekhanika, 1951, t 154, No. 4; see also K. G. Guderley. The Flat Plate with an Angle of Attack in a Choked Wind Tunnel. J. Aeronaut. Sci., 1955, vol. 22, No. 12.) The author thanks S. V. Fal'kovich for proposing the problem and for his valuable comments. Orig. art. has: 3 figures and 29 equations.

SUB CODE: 20, 01/ SUBM DATE: 17May65/ ORIG REF: CO5/ OTH REF: CO7

Card 2/2

ACC NR: AR6024030	SOURCE CODE: UR/0044/66/000/004/B049/B049	7 .
AUTHOR: Sevost'yanov.	. G. D.	
	oundary problem for a half-fringe and a quarter of a plane	
SOURCE: Ref zh. Matem	natika, Abs. 4B235	
REF SOURCE: Volzhsk.	matem. sb., 1965, vyp. 3, 312-320	
TOPIC TAGS: mixed bou	ndary value problem, differential equation solution	
ABSTRACT: For the Tri	comi equation $y_{z_{xx}+z_{yy}=0} $ (T)	
the author solves two $z(x, y)$ which satisfie $0 \le x \le 1$, $0 \le y \le \infty$, and on the	problems. Problem 1. Let the continuous and bounded function s (T) have the limiting values at the ends of the half for	
	$s(0, y) = p_1(y) = q_1(s), 0 < y < \infty, s = \frac{2}{3}y^{\frac{3}{2}},$	
	$z(1, y) = p_1(y) = q_1(z), 0 < y < \infty$	
$z = p_3(x)$ on the charac	$x = \frac{\pi}{3} \left(-y\right)^{q}, \ 0 < x < \frac{\pi}{2},$	_
•	$\frac{\partial}{\partial x} s(x,0) = O\left((1-x) - \frac{1}{3}\right), x = 1.$	_
whoma makes and and a	B2(V) are given bounded functions my	_
where $p_1(y)$, $p_2(y)$ and Cord $1/3$	p3(y) are given bounded functions. The solution is established	

ACC NR: AR6024030

in closed form. It is sought in the form

$$z(x, y) = z_1(x, y) + z_2(x, y).$$

Both functions z_1 and z_2 are known. Function $z_2(x,y)$ is represented in the form of a series

$$z_{n}(x, y) = \sum_{n=1}^{\infty} a_{n}Ai[(\pi n)^{2/3}y] \text{ sig sine,}$$

where

$$\sqrt{a_n - \frac{2}{(\pi n)^{3/3} A l'(0)}} \int_0^1 v(l) \sin \pi A l dl,$$

and Ai(x) is the Airy function. The function $\nu(x)$ is found approximately in the form of the series

$$\forall (x) \approx x^{1/3} \frac{\tan \pi x}{1/3} \sum_{n=0}^{\infty} d_n \cos^{4n} \frac{\pi x}{2}.$$

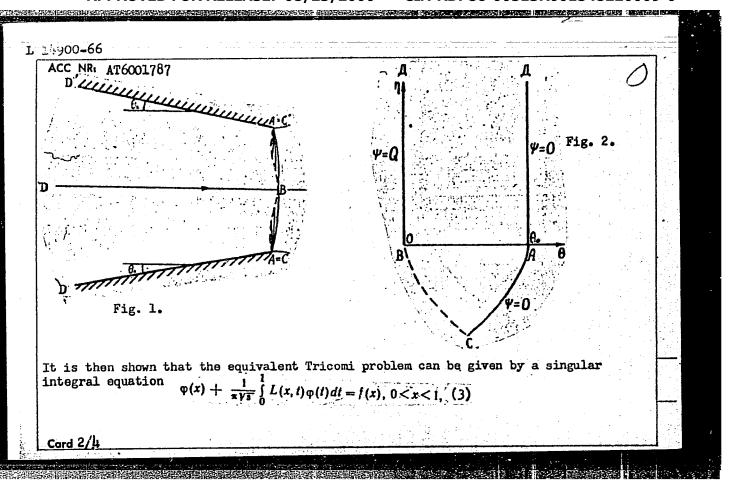
A linear system of equations is obtained for the determination of the coefficients d_n . Problem 2. Let the function z(x, y) satisfy the equation (T) in a mixed region, the eliptic part of which is in the first quadrant of the plane x, y ($x \ge 0$, $y \ge 0$), while the hyperbolic part is an infinitely large characteristic triangle bounded by two characteristics of differing families one of which has the equation $x = 2/3(-y)^{3/2}$, $0 \le x \le \infty$, while the other is the characteristic of a second family, having the equation

Card 2/3

l	NR: AR6					** **					•	.•
$2/3(-y)^{3/2} = d - x$, $y \le 0$, $d \to +\infty$ shifted into infinity. This problem is likewise solved in a finite form. [Translation of abstract] L. Vostrova												
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IJP(c) EWT(d)/EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1) L 14900-66 SOURCE CODE: UR/0000/64/000/000/0113/0129 ACC NR: AT6001787 AUTHOR: Sevost'yanov, G. D. ORG: Saratov State University (Saratovskiy gosudarstvennyy universitet) TITLE: Plane near-sonic gas flow leading to the Tricomi boundary problem in the halfplane . SOURCE: Transzvukovyye techeniya gaza (Transonic gas flows); sbornik statey. Saratov, Izd-vo Saratovskogo univ., 1964, 113-129 TOPIC TAGS: transonic flow, gas flow, Triconi problem, hodograph, integral equation, houndary value profess, successive approprimation

ABSTRACT? The sonic flow of a gas through a two-dimensional straight walled channel ADD'A' (see Fig. 1) is investigated using the Tricomi boundary value problem. In the channel, section AA' corresponds to the sonic line and, because of symmetric flow conditions, the analysis is restricted to the half-region DB. Transformed into the hodograph plane (see Fig. 2), the governing equation becomes $yz_{xs}+z_{yy}=0$ (1) with the boundary conditions $z(0,y) = P_1(y) = q_1(s), y > 0, s = \frac{2}{3}y^{4/3}$ $z(1, y) = P_2(y) = q_2(s), y > 0$ (2) $z = P_3(x)$ ha $AC: x = \frac{2}{3}(-y)^{1/3}, 0 \le x \le \frac{1}{2}, y \le 0$ Card 1/4



L 14900-66

ACC NR: AT6001787

where L(x,t) is given by
$$L(x, t) = \frac{1}{t-x} + \frac{1}{t+x} + \sum_{n=1}^{\infty} \left(\frac{t}{2n+t}\right)^{1/s} \left(\frac{1}{2n+t+x} + \frac{1}{2n+t-x}\right)$$
 (4)

$$-\sum_{n=1}^{\infty} \frac{t}{(2n-t)^{1/s}} \left(\frac{1}{2n-t+x} + \frac{1}{2n-t-x}\right)$$

This singular integral has an open contour with the cut 0 < x < 1. To solve this integral equation, the following complex function is introduced which is analytic for all z

 $\Phi(z) = \frac{1}{2\pi i} \int_0^1 L(z,t) \varphi(t) dt \quad (5)$

It leads to the expression for φ (x) given by

$$\varphi(x) = N[r(x)] = \frac{3}{4}[r(x) - \frac{1}{\pi\sqrt{3}} \int_{0}^{1} \left(\frac{\lg \frac{\pi}{2} x}{\lg \frac{\pi}{2} t} \right)^{1/2} L_{0}(x,t)r(t)dt \right]$$
 (6)

which is then incorporated into an operator form given by

$$M[\varphi(x)] = P[\varphi(x)],$$

$$P[\varphi(x)] = f(x) - \frac{1}{\pi \sqrt{3}} \int_{0}^{1} \Delta L(x,t) \varphi(t) dt \quad (7)$$

Card 3/4

wh	nuations can be solve	inverse of each other. It is then shown that the above ed by successive approximations which converge to the solution by (3). In conclusion the author expresses his deep iya Vladimirovich Fallkovich for preparing the problem and figures.	ion for
ar t	opreciation to Saveli he help. Orig. art.	has: 53 equations and 3 figures. DATE: 21Jul6h/ ORIG REF: 012/	
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EWT(1)/EWP(m) L 29864-66 UR/0421/66/000/002/0053/0059 CODE: ACC NRI SOURCE AP6013197 40 Sevost'yanov, G. D. (Saratov) AUTHOR: B 11. ORG: none TITLE: Flow of a sonic free gas jet around a shape Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, AN SSSR. 53-59 TOPIC TAGS: ges jet, ges flow The article is devoted to the construction of a function for flow at a distance from a shape, around which is flowing a flat free sonic gas jet. Let a thin symmetrical shape be placed along the axis of a flat free sonic jet. (See Figure 1). Figure 1 Card 1/2

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Since the velocities in the jet at a distance from the shape do not differ by much from the velocity of sound, the flow function $\psi(\beta,\eta)$ approximately obeys the Tricomi equation:

$$\eta \psi_{90} + \psi_{nn} = 0 \tag{1.1}$$

After mathematical solution of the above problem, the article goes on to consider the flow around a shape of a sonic jet issuing from a channel. "The author thanks S. V. Fal'kovich for his valuable observations on the article." Orig. art. has: 29 formulas and 4 figures.

SUB CODE: 20/ SUBM DATE: 23Nov65/ ORIG REF: 005/ OTH REF: 006

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		AUTHORS:	Denisov, N. K., L. Ye., Redekar Tereshchenko, I	Zaretskiy,L.I., , A.V., Sevest	Kapelyushnikov, anov,I.E. and			
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